

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A device control management apparatus, comprising:

a first communication section connected to each of communication devices via each of first communication paths;

a second communication section connected to each of controlled devices via each of second communication paths;

a control right management section that includes a control information management table, in advance, that allows the control right management section to manage a control right that is set between the communication device connected to the first communication section and the controlled devices connected to the second communication section, and

communication management section means for detecting a communication condition of at least one of the first communication path and the second communication path, wherein

the control right management section is capable of changing a setting of the control right without communicating with the communication device for which the control right is set; and

the change of setting is made in accordance with variation of the communication condition detected by the communication management section means.

2. (Previously Presented) The device control management apparatus as set forth in claim 1, wherein the control right management section is capable of obtaining or releasing the control right, which allows the communication device connected to the first communication section to control the controlled device, connected to the second communication section, as management of the control right.

3. (Canceled)

4. (Previously Presented) The device control management apparatus as set forth in claim 1, wherein

in case where the communication management section detects that a communication of at least one of the first communication path and the second communication path is cut off, the control right management section releases the control right between the communication device and the controlled device that communicate with each other via said at least one of the first communication path and the second communication path.

5. (Previously Presented) The device control management apparatus as set forth in claim 1, wherein

in case where the communication management section detects that a communication of at least one of the first communication path and the second communication path is established, the control right management section establishes the control right between the communication device and the controlled device that communicate with each other via said at least one of the first communication path and the second communication path.

6. (Previously Presented) The device control management apparatus as set forth in claim 1, wherein

in case where the setting of the control right is changed, the control right management section notifies how the control right is changed to the communication device or the controlled device that is connected to the other of the first communication path and the second communication path.

7. (Previously Presented) The device control management apparatus as set forth in claim 1, comprising setting input section which is capable of inputting the setting of the control right not via the first communication section.

8. (Previously Presented) The device control management apparatus as set forth in claim 7, wherein

in case where the setting input section inputs the setting of the control right, the control right management section prioritizes the setting of the control right that has been inputted.

9. (Previously Presented) The device control management apparatus as set forth in claim 1, comprising display section which is capable of displaying a setting condition of the control right.

10. (Previously Presented) The device control management apparatus as set forth in claim 9, wherein the display section is capable of displaying a relationship between the control right and the communication device having the control right as the setting condition.

11. (Previously Presented) The device control management apparatus as set forth in claim 1, wherein the second communication section and the controlled device are provided in the device control management apparatus.

12. (Currently Amended) A device control management apparatus,
being connected to communication devices via first communication paths,
comprising a control right management section that includes a control information management table, in advance, that allows the control right management section to add or release one or more control rights for controlled devices to or from one or more communication devices in case where the device control management apparatus receives each of control commands for the controlled devices from the communication devices via the first communication paths, and
communication management ~~section means~~ for detecting a communication condition for one of the first communication paths, wherein

the control right management section is capable of changing a setting of the control right without communicating with the communication device for which the control right is set; and
the change of setting is made in accordance with variation of the communication condition detected by the communication management ~~section means~~.

13. (Previously Presented) The device control management apparatus as set forth in claim 12, wherein

the control right management section adds or release the control right in accordance with a type of the control command.

14. (Previously Presented) The device control management apparatus as set forth in claim 13, wherein

the control right management section judges whether or not the control command is a command which changes an operative condition of each of the controlled devices, and the control right management section does not add or release the control right in case where the control command is a command which does not change the operative condition of the controlled device.

15. (Previously Presented) The device control management apparatus as set forth in claim 13, wherein

the control right management section adds the control right to a communication device, which has sent a communication connection establishment command, in case where the control right management section receives the communication connection establishment command.

16. (Previously Presented) The device control management apparatus as set forth in claim 13, wherein

the control right management section releases the control right of a communication device, which has sent a communication connection cut-off command, in case where the control right management section receives the communication connection cut-off command.

17. (Previously Presented) The device control management apparatus as set forth in claim 12, wherein

in case where the control right management section receives one or more control commands, targeted in adding the control right, from one or more communication devices connected to the device control management apparatus via the first communication paths, the control right management section adds the control rights to a predetermined number of communication devices out of the communication devices which have sent the control commands.

18. (Previously Presented) The device control management apparatus as set forth in claim 17, wherein

in case where the control right management section receives the control commands, targeted in adding the control right, from a plurality of communication devices connected to the device control management apparatus via the first communication paths, the control right management section adds the control rights to the communication devices in such an order that a first communication device having sent the control command first receives the control right.

19. (Previously Presented) The device control management apparatus as set forth in claim 12, wherein

in case where the control right is released from a certain communication device, the control right management section selects a next communication device, to which the control right

is to be added, from other communication devices connected to the device control management apparatus via the first communication paths.

20. (Previously Presented) The device control management apparatus as set forth in claim 19, wherein

the control right management section selects a communication device which has sent the control command, targeted in adding the control right, to the device control management apparatus, as a next communication device to which the control right is to be added.

21. (Previously Presented) The device control management apparatus as set forth in claim 12, wherein

when the control right is to be added to a communication device, the control right management section notifies a communication device which newly obtains the control right or a controlled device which is newly targeted that the control right is added.

22. (Previously Presented) The device control management apparatus as set forth in claim 12, wherein

when the control right is to be released to a communication device, the control right management section notifies the communication device which had the control right or the controlled device which was controlled by the communication device that the control right is released.

23. (Previously Presented) A communication device, connected to the device control management apparatus as set forth in claim 12 via a first communication path,

said communication device comprising a display control section receiving a control right obtaining condition from the device control management apparatus and for controlling a display so that the control right obtaining condition is displayed in case where the control command is sent to the device control management apparatus.

24. (Previously Presented) The device control management apparatus as set forth in claim 1, further comprising not only the first communication section but also setting input section which allows the control right to be set and inputted from an outside of the device control management apparatus.

25. (Currently Amended) A device control management apparatus, being connected to each of communication devices via each of first communication paths,

having a function for controlling a controlled device in accordance with a predetermined control command, said device control management apparatus being characterized by comprising control right management section controlling the controlled device in accordance with the control command and for adding or releasing the control right for the controlled device to or from the communication device which has sent the control command in case where the device control management apparatus receives the control command for the controlled device from the communication device via the first communication path, where the control right management

section includes a control information management table, in advance, that allows the control right management section to add or release the control right for the controlled devices, and

communication management section means for detecting a communication condition for one of the first communication paths, wherein

the control right management section is capable of changing a setting of the control right without communicating with the communication device for which the control right is set; and
the change of setting is made in accordance with variation of the communication
condition detected by the communication management section means.

26. (Previously Presented) The device control management apparatus as set forth in claim 25, wherein the controlled device is provided in the device control management apparatus.

27. (Previously Presented) The device control management apparatus as set forth in claim 25, wherein control right information of the controlled device is not included in the control command of the controlled device.

28. (Previously Presented) The device control management apparatus as set forth in claim 1, wherein the device control management apparatus confirms a control right condition set in the controlled device when relaying a controlled device operation command sent from the communication device, and the device control management apparatus stops sending the controlled device operation command sent from the communication device or an operation

command corresponding to the controlled device operation command in case where a device other than the communication device has the control right for the controlled device.

29. (Previously Presented) The device control management apparatus as set forth in claim 28, wherein the device control management apparatus adds the control right for the controlled device to a communication device which has sent the controlled device operation command in case where no device has the control right for the controlled device.

30. (Previously Presented) The device control management apparatus as set forth in claim 28, wherein the device control management apparatus releases the control right for the controlled device in case where the communication device which has sent the controlled device operation command is identical with a device having the control right that has been set with respect to the controlled device on the basis of the controlled device operation command.

31. (Previously Presented) The device control management apparatus as set forth in claim 28, wherein the control management section adds or releases the control right in accordance with a type of the control command.

32. (Previously Presented) The device control management apparatus as set forth in claim 28, wherein the controlled device is provided in the device control management apparatus.

33. (New) The device control management apparatus as set forth in claim 1, wherein:

the communication device sends the control right to the controlled device,

the communication device is notified by the controlled device of a result of the control right, where the result includes either a notification of a success when the control right is successfully performed and a notification of a failure when the control right is unsuccessfully performed, and

the communication device displays the result on a display device.